



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
0942.4630001APPLICATION NO.
09/650,339APPLICANT
David A. Epstein et al.FILING DATE
August 28, 2000

GROUP

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
HAB	AA1	4,205,126	05/27/1980	Cartaya	435	2	12/14/1978
	AB1	RE 30,985	06/29/1982	Cartaya	435	240	02/06/1981
	AC1	4,550,101	10/29/1985	Hider et al.	514	188	03/24/1983
	AD1	4,533,637	08/06/1985	Yamane et al.	435	240	05/18/1982
	AE1	4,575,502	03/11/1986	Hider et al.	514	184	10/18/1983
	AF1	4,650,793	03/17/1987	Hider et al.	514	188	03/22/1984
	AG1	4,665,064	05/12/1987	Hider et al.	514	184	10/31/1984
	AH1	4,666,927	05/19/1987	Hider et al.	514	350	09/18/1984
	AI1	4,767,704	08/30/1988	Cleveland et al.	435	68	10/07/1983
	AJ1	4,834,983	05/30/1989	Hider et al.	424	463	05/26/1987
HAB	AK1	4,861,767	08/29/1989	Hider et al.	514	184	07/13/1987

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
HAB	AL1	WO 88/02774	04/21/1988	WIPO			Yes No
	AM1	WO 94/02592	02/03/1994	WIPO			Yes No
	AN1	WO 98/15614	04/16/1998	WIPO			Yes No
	AO1	WO 98/08934	03/05/1998	WIPO			Yes No
HAB	AP1	EP 0 282 942 A2	09/21/1988	Europe			Yes No

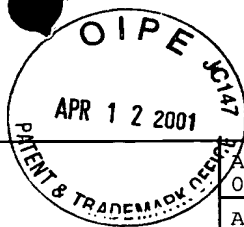
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

HAB	AR	1	Bridges, K.R., and Cudkowicz, A., "Effect of Iron Chelators on the Transferrin Receptor in K562 Cells," J. Biol. Chem. 259:12970-12977, American Society of Biological Chemists, Inc. (1984).
HAB	AS	1	Darfler, F.J., "A Protein-Free Medium for the Growth of Hybridomas and Other Cells of the Immune System," In Vitro Cell. Dev. Biol. 26:769-778, Tissue Culture Association (1990).
HAB	AT	1	Eto, N., et al., "Development of a Protein-free Medium with Ferric Citrate Substituting Transferrin for the Cultivation of Mouse-Mouse Hybridomas," Agric. Biol. Chem. 55:863-865, Agricultural Chemical Society of Japan (1991).

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JH/12	AA2	4,879,222	11/07/1989	Alderman et al.	435	68	08/28/1986
	AB2	4,908,371	03/13/1990	Moerker et al.	514	318	11/01/1988
	AC2	4,912,118	03/27/1990	Hider et al.	514	332	12/22/1986
	AD2	5,045,454	09/03/1991	Bertheussen	435	29	02/23/1990
	AE2	5,045,468	09/03/1991	Darfler	435	240.31	08/15/1989
	AF2	5,057,302	10/15/1991	Johnson et al.	424	1.1	01/04/1988
	AG2	5,057,302	10/15/1991	Johnson et al.	424	1.1	01/04/1988
	AH2	5,061,815	10/29/1991	Leu	556	118	05/29/1990
	AI2	5,118,513	06/02/1992	Mehansho et al.	426	2	08/16/1990
	AJ2	5,135,866	08/04/1992	Heifetz et al.	435	240.31	03/03/1989
JH/12	AK2	5,177,068	01/05/1993	Callingham et al.	514	184	05/08/1989

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
JH/12	AL2	EP 0 872 487 A2	10/21/1998	Europe			Yes No
JH/12	AM2	EP 0 872 487 A3	10/27/1999	Europe			Yes No
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	AO						Yes No
X	AP						Yes No

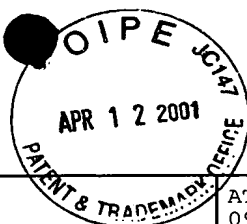
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JH/12	AR	2	Forsbeck, K., et al., "Variation in iron accumulation, transferrin membrane binding, and DNA synthesis in the K-562 and U-937 cell lines induced by chelators and their iron complexes," <i>Eur. J. Haematol.</i> 39:318-325, Munksgard (1987).
JH/12	AS	2	Ganeshaguru, K., et al., "Effect of Various Iron Chelating Agents on DNA Synthesis in Human Cells," <i>Biochem. Pharmacol.</i> 29:1275-1279, Pergamon Press Ltd. (1980).
JH/12	AT	2	Ham, R.G., "Formulation of Basal Nutrient Media," in <i>Methods for Preparation of Media, Supplements and Substrata for Serum-Free Animal Cell Culture</i> , Vol. 1, Barnes, D.W., et al., eds., Alan R. Liss, Inc., New York, pp. 3-21 (1984).

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HAP	AA3	5,202,451	04/13/1993	Fritzberg et al.	556	419	02/17/1988
	AB3	RE 34,313	07/13/1993	Hider et al.	514	188	10/01/1991
	AC3	5,227,474	07/13/1993	Johnson et al.	534	558	05/28/1991
	AD3	5,232,848	08/03/1993	Wolfe et al.	435	240.31	11/16/1989
	AE3	5,256,676	10/26/1993	Hider et al.	514	348	07/24/1992
	AF3	5,278,329	01/11/1994	Anderson	556	50	02/21/1992
	AG3	5,302,370	04/12/1994	Neumeier et al.	424	1.53	08/22/1990
	AH3	5,393,903	02/28/1995	Grätzel et al.	556	137	02/19/1992
	AI3	5,419,894	05/30/1995	Gries et al.	424	1.65	03/28/1994
	AJ3	5,424,057	06/13/1995	Peter et al.	424	365	04/08/1994
HAP	AK3	5,430,058	07/04/1995	Shanzer et al.	514	575	03/01/1993

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

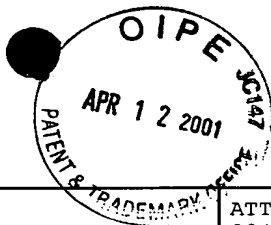
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HAP	AR	3	Inoue, Y., et al., "Production of Recombinant Human Monoclonal Antibody Using ras-Amplified BHK-21 Cells in a Protein-free Medium," <i>Biosci. Biotech. Biochem.</i> 60:811-817, Japan Society for Bioscience, Biotechnology, and Agrochemistry (1996).
HAP	AS	3	Keenan, J., and Clynes, M., "Replacement of Transferrin by Simple Iron Compounds for MDCK Cells Grown and Subcultured in Serum-Free Medium," <i>In Vitro Cell Dev. Biol.- Animal</i> 32:451-453, Society for In Vitro Biology (1996).
HAP	AT	3	Kontoghiorghe, G.J., "The study of iron mobilisation from transferrin using α -ketohydroxy heteroaromatic chelators," <i>Biochim. Biophys. Acta</i> 869:141-146, Elsevier Science Publishers B.V. (1986).

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015. PARENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
HQA	AA4	5,430,164	07/04/1995	Abdel-Monem et al.	556	2	10/18/1994
	AB4	5,474,931	12/12/1995	DiSorbo et al.	435	240.31	09/21/1993
	AC4	5,480,894	02/02/1996	Hider et al.	514	348	05/18/1993
	AD4	5,494,935	02/27/1996	Miller et al.	514	674	04/03/1995
	AE4	5,506,266	04/09/1996	Davies et al.	514	575	08/30/1993
	AF4	5,583,243	12/10/1996	Abdel-Monem	556	49	05/19/1995
	AG4	5,624,901	04/29/1997	Raymond et al.	514	17	08/02/1994
	AH4	5,637,311	07/10/1997	Pallenberg	424	434	07/29/1995
	AI4	5,688,815	11/18/1997	Zbinden	514	348	09/27/1996
	AJ4	5,707,604	01/13/1998	Ranney	424	9.35	06/07/1995
HQA	AK4	5,746,995	05/05/1998	Maier et al.	424	1.65	11/30/1995

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

HQA	AR	4	Koller, M.R., et al., "Alternatives to Animal Sera for Human Bone Marrow Cell Expansion: Human Serum and Serum-Free Media," <i>J. Hematotherapy</i> 7:413-423, Mary Ann Liebert, Inc. (October 1998).
	AS	4	Korohoda, W., et al., "Addition of iron and zinc complexes to Eagle's Minimal Essential Medium is sufficient to induce and support the proliferation of B16 melanoma cells," <i>Folia Histochemica et Cytobiologica</i> 31:3-7, Polish Histochemical And Cytochemical Society And Foundation For Cell And Molecular Biology At Vesalius University Medical Publisher (1993).
	AT	4	Nagira, K., et al., "Development of a Protein-free Medium with Iron Salts Replacing Transferrin for a Human-Human Hybridoma," <i>Biosci. Biotech. Biochem.</i> 59:743-745, Japan Society for Bioscience, Biotechnology, and Agrochemistry (1995).

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MJA TBA	AA5	5,756,825	05/26/1998	Safavy et al.	560	169	04/16/1993
	AB5	5,804,420	09/08/1998	Chan et al.	435	69.6	04/18/1997
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MJA TBA PBB	AR	<u>5</u>	Neumannova, V., et al., "Growth of Human Tumor Cell Lines in Transferrin-Free, Low-Iron Medium," <i>In Vitro Cell. Dev. Biol.- Animal</i> 31:625-632, Society for In Vitro Biology (1995).
	AS	<u>5</u>	Okabe, T., et al., "Long-term cultivation and differentiation of human erythroleukemia cells in a protein-free chemically defined medium," <i>Proc. Natl. Acad. Sci. USA</i> 81:453-455, National Academy of Sciences of the USA (1984).
	AT	<u>5</u>	Qian, Z.M. and Tang, P.L., "Mechanisms of iron uptake by mammalian cells," <i>Biochim. Biophys. Acta</i> 1269:205-214, Elsevier Science B.V. (1995).

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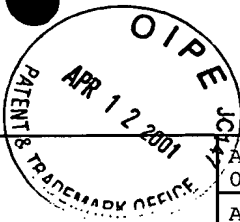
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	AR	<u>6</u>	Rivkin, G., et al., "IRC011, a New Synthetic Chelator With Selective Interaction With Catabolic Red Blood Cell Iron: Evaluation in Hypertransfused Rats With Hepatocellular and Reticuloendothelial Radioiron Probes and in Iron-Loaded Rat Heart Cells in Culture," <i>Blood</i> 90:4180-4187, W. B. Saunders (1997).
	AS	<u>6</u>	Schneider, Y.-J., "Optimisation of hybridoma cell growth and monoclonal antibody secretion in a chemically defined, serum- and protein-free culture medium," <i>J. Immunol. Meth.</i> 116:65-77, Elsevier Science Publishers B.V. (1989).
	AT	<u>6</u>	Testa, U., et al., "The iron-chelating agent picolinic acid enhances transferring receptors expression in human erythroleukaemic cell lines," <i>Brit. J. Haematol.</i> 60:491-502, Blackwell Science Ltd. (1985).

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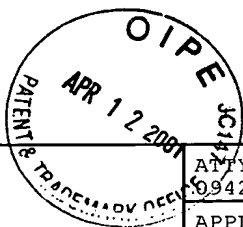
	AR	7	Waymouth, C., "Preparation and Use of Serum-Free Culture Media," in <i>Methods for Preparation of Media, Supplements and Substrata for Serum-Free Animal Culture</i> , Vol. 2, Barnes, D.W., et al., eds., Alan. R. Liss, Inc., New York, pp. 23-68 (1984).
	AS	7	White, G.P., et al., "The Effect of Chelating Agents on Iron Mobilization in Chang Cell Cultures," <i>Blood</i> 48:923-929, W.B. Saunders (1976).
	AT	7	Yabe, N., et al., "Role of Iron Chelators in Growth-Promoting Effect on Mouse Hybridoma Cells in a Chemically Defined Medium," <i>In Vitro Cell. Dev. Biol.</i> 23:815-820, Tissue Culture Association, Inc. (1987).

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18-JUN-01

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
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	AR	8	Yabe, N., and Matsui, H., "Effects of Iron Chelates on the Transferrin-Free Culture of Rat Dermal Fibroblasts Through Active Oxygen Generation," <i>In Vitro Cell. Dev. Biol.-Animal</i> 33:527-535, Society for In Vitro Biology (1997).
	AS	8	Zang, M., et al., "Production of Recombinant Proteins in Chinese Hamster Ovary Cells Using A Protein-Free Cell Culture Medium," <i>Bio/Technol.</i> 13:389-392, Nature Publishing Co. (1995).
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Page 1 of 2

FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942,4630001	APPLICATION NO. 09/650,339
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	AC5	5,688,815	11/18/1997	Zbinden	514	348	09/27/1996
	AD5	5,419,894	05/30/1995	Gries et al.	424	1.65	03/28/1994
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN2	EP 0 274 445 A2	07/13/1988	Europe			Yes No
	AO2	WO 93/00423	01/07/1993	WIPO			Yes No
	AP2	WO 97/34999	09/25/1997	WIPO			Yes No

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	AT	8	Kriegerbecková, K., et al., "Non-Transferrin Iron Uptake by HeLa Cells Cultured in Serum-Free Media with Different Iron Sources," <i>Eur. J. Clin. Chem. Clin. Biochem.</i> 33:791-797, Walter de Gruyter & Co. (1995).

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	AP						Yes No

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<i>RA</i>	AR	<u>9</u>	International Search Report for International Patent No. PCT/US00/23580, mailed March 28, 2001.
	AS		
	AT		

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